# impression<sup>®</sup>

# Manual struction



from software version: 1.0 (Instruction version: 1.0)



e-mail: service@glp.de Internet: http://www.glp.de





Notes:	



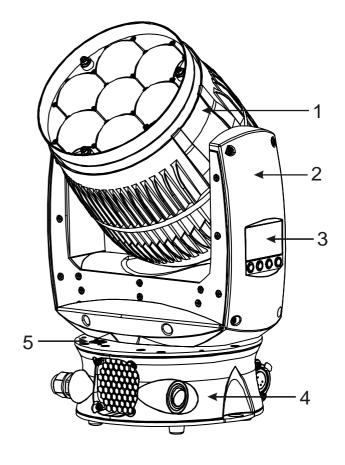


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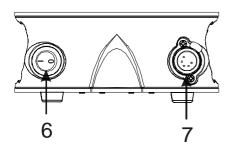
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# 1 Description of Device

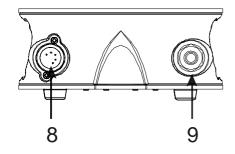
- 1. Moving head (actively and passively cooled)
- 2. Arm of device
- 3. LCD-Display/Menu (data entry)
- 4. Base with various connectors, air in/outlets and mounting system
- 5. Fuse holder



# base side 1



base side 2



- 6. Power On/Off
- 7. DMX- Output (5-pin)
- 8. DMX- Input (5-pin)
- 9. Mains supply (fixed cable)

# 1.1 Safety Instructions



The **IMPRESSION X4Ss** is a High-Tech Product. To guarantee a smooth operation, it is necessary to respect the following rules.

The manufacturer of this device will not take responsibility for damages through any disregard of the information provided in this manual. Warranty claims also will be voided in the case that the fixture housing is opened.

- 1. Before powering on the fixture, make sure that the fixtures fans and air inlets are clean and not blocked.
- Ensure that the fixture head can rotate unhindered throughout its complete range of pan and tilt movement. A safety distance of at least 0.5 m must be maintained between the fixture and any easily inflammable material (e.g. decoration material).
- 3. <u>Attention!</u> Don't touch the fixture during the operation. This can cause injuries and/or damages.
- 4. The fixture doesn't contain any user serviceable parts. Opening the fixture will void all warranties.
- It is necessary to wait at least 15 minutes after disconnecting the mains power before handling the fixture.. Pay attention to possible hot parts of the fixture.
   -- Danger of BURNING --
- 6. Never look directly into the beam of light or into one of the LEDs.

  Never use optical apertures to observe the beam of light. LED Class 2M.

  You'll risk serious injury of your eyes and in particular of your retina.



**Attention:** LED Class 2M can cause injuries of your eyes even without optical instruments in front of them or within a distance of less than 0.5m and short exposure time.

Hence: Avoid direct radiation into your eyes!

- 7. To ensure safe operation, follow also the Installation guide described in chapter 2. Operating the IMPRESSION X4S without suitable safety aids like Safety cables or clamps/hooks can increase the risk of an accident and must be avoided.
- 8. Repair, maintenance, and installation work shall be done by qualified or GLP certified staff only. You need to pay attention to the common rules of technology that are not explicitly mentioned in this manual.
- 9. Use only original GLP spare parts. Any structural modification of the system will terminate all warranty claims.



10. Please keep this instruction manual for future reference.

# 2 Preparation and Installation

# 2.1 Safety information

The **IMPRESSION X4S** fixtures from GLP is fitted with a number of planoconvex lenses in a highly efficient collimator cluster. This type of lens can act as a strong magnifying glass.

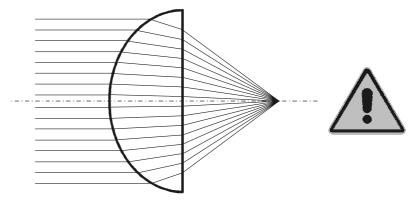
If the rays from a strong light source (such as the sun or another lighting fixture) are directed towards the front of any of these fixtures, then internal damage may occur. In a worst case scenario with a high power light source this can happen very quickly, damaging the fixture internally, potentially melting components or causing an internal fire within seconds.

In order to avoid these possible problems please adhere to the following requirements:

- Do not expose the front of a fixture to direct sunlight or any other strong light sources.
- For outdoor applications during daylight make sure that the front face of any fixture is either shielded or points away from the sun, even when fixtures are not in use.
- Do not modify the front glass or lenses of any fixture.

These requirements have to be followed regardless of whether a fixture is powered on or off as the magnifying effect is an optical effect and therefore independent from the (electrical) state of the fixture.

Especially when working with high powered **beam-lights**; extreme caution and observance of these safety instructions is mandatory.



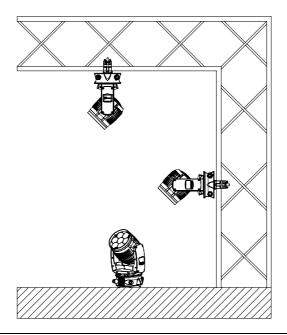
Should you have any questions about the operation of your fixture then please contact your local GLP office, or their authorized distributor, a list of which can



be found at http://www.glp.de.

# 2.2 Mounting

The **IMPRESSION X4S** is fully operational whether it hangs or is mounted to the wall. It can also be operated while standing on the floor. Keep a safety distance of min. 0.5 m towards any easily inflammable materials (decoration etc.).

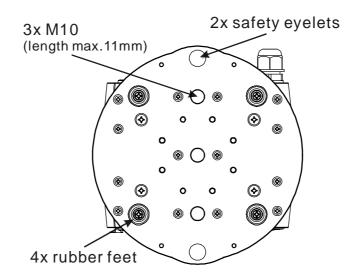




Pay attention to the regulations of: BGV C1 (former VBG 70), DIN VDE 0711-217 and BGI 810-3.

The installation shall be done by qualified staff only.

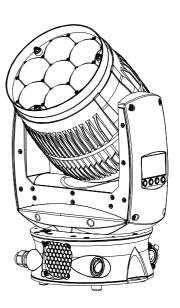
For the various mounting positions of the **IMPRESSION X4S** (standing on the floor, sideways or hanging) different connectors are available. Through this a safe and firm installation is assured. You'll find dedicated M10 threads on the bottom side of the fixture which should be used. In addition the top of the base is marked with a **FRONT** arrow allowing consistent orientation during installation.



Fixture from below

# 2.2.1 Operating on the Floor (Upright)

The **IMPRESSION X4S** is fitted with 4x solid rubber feet which allows a stable standing of the fixture. An additional securing is usually not required. Please pay attention to an even and gripping surface.

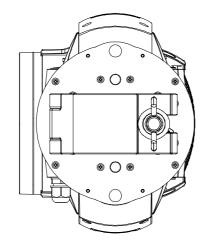


# 2.2.2 Mounting in hanging position

To operate the **IMPRESSION X4S** in a hanging position please use a half-coupler (clamp). This can be mounted directly to the bottom side of the fixture. It should be attached centrically with a M10 mm thread bolt (max. length 11mm).

Attention: Never use a longer bolt as this may damage the interior of the fixture.



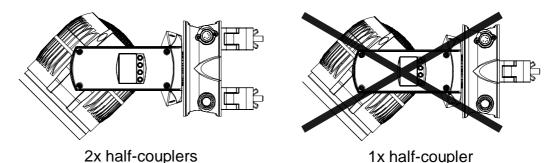




# 2.2.3 Mounting in sideways Position

To operate the **IMPRESSION X4S** in a sideways position please use two half-couplers (clamps) attached to the bottom side of the base. They should be attached with M10 mm thread bolts (max. length 11mm).

This technique is necessary to cope with the torque which accrues in this mounting position. Never use the "Mounting in hanging position" technique described above to fasten the fixture in the sideways position. A safe and sound installation can not be assured in this way. In addition this can damage the fixture base.



#### 2.3 Securing the Fixture

Regardless of the mounting method of the **IMPRESSION X4S** you'll have to use a stipulated safety wire. Attach the safety wire through one of the two holes provided on the base of the fixture and connect it to the primary support structure. Pay attention to a safe and proper fastening. The safety cable must comply with BGI 810-3 (EN 60598-2-17 Section 17.6.6) and be capable of bearing a static suspended load that is ten times the weight of the fixture and all installed accessories.



#### 2.4 Connections

# 2.4.1 Power Supply

~100-240 Volt AC, 50-60 Hz, earth contact type plug

Connected load 350 VA (W) <=> T5A (micro-fuse 5x20mm)

Please see printing on the case for the right electronic supply!

Disconnect from the mains supply for changing the fuse and use only the above described micro-fuse type.

#### 2.4.2 DMX

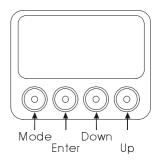
USITT DMX-512 Standard input/output in 5-pin connectors.

Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+] / Pin 4&5 N.C.

The DMX- Addressing starts at the DMX- Address [001].

#### 3 The Menu Field

You'll find the control board on the side part of the arm. It allows you to make all necessary adjustments of the **IMPRESSION X4S.** With the **Mode-**key you get into the main menu. Afterwards you can navigate through the menu with the **Up/Down-**keys. Push the **Enter-**key to get in the next menu level or to confirm your settings. Make them and set functions **ON/OFF** with the **Up/Down-**keys. Confirm and save it with the **Enter-**key (the display shows **OK**). Push the **Mode-**key to cancel the entry and go back to the main menu.



To lock or unlock the keys of the menu field press Mode+Enter+Up simultaneously.

← MODE - ENTER →

	Level1	Level 2	Level 3	Level 4	Remark
	DMX Start Address 001				Set the DMX start address
$\uparrow$	Special	Manual DMX			Manual control of all fixture functions
NP.			Pan		Manual control for Pan (X-movement)
, Z			Pattern Byte 1		Manual control for Pattern Byte 1 LED 1 - 7
DOWN			Pattern		Manual control for Pattern channel / bank
<b>□</b> →			Zoom		Manual control for Zoom
			Speed Movements		Manual control for Pan/Tilt movements
			Pan/Tilt Movements		Manual control for Pan/Tilt movements
			Special		





White Temperature		Manual control for Color temperature
Dimmer		Manual control for Dimmer
Shutter		Manual control for Shutter
White		Manual control for White
Blue		Manual control for blue
Green		Manual control for green
Red		Manual control for red
Color Wheel		Manual control for the color wheel
Tilt		Manual control for Tilt (Y-movement)
Key code xxxx		Use the code for entering the calibration menu (for authorized persons only)
Display Contrast		Adjustment for the Display contrast
PWM -		Changes PMW frequency
Pan Offset		Calibration for Pan-Offset
Tilt Offset		Calibration for Tilt-Offset
LED adjust		
	White adjust red	Adjust intensity for red channel
	White adjust blue	Adjust intensity for blue channel
	White adjust green	Adjust intensity for green channel
Clear EEPROM		Erase EEPROM memory
Diagnose		Diagnose fixture functions
Set image if DMX off		Activates a stored scene if DMX is off
Save image in memory		Stores the scene currently sent to the unit
		Indicates the presently received DMX signal per DMX channel
Pan		Instantaneous value for Pan
Tilt		Instantaneous value for Tilt
Pattern Byte 1		Instantaneous value for Pattern Byte 1
Pattern		Instantaneous value for Pattern channel / bank
Zoom		Instantaneous value for Zoom
Speed Movements		Speed adjustment for Pan/Tilt movements → see item below
Pan/Tilt Movements		Instantaneous value for Pan/Tilt movements
	Dimmer Shutter White Blue Green Red Color Wheel Tilt Key code xxxx Display Contrast PWM - Frequ. Adj. Pan Offset Tilt Offset LED adjust  Clear EEPROM Diagnose Set image if DMX off Save image in memory  Pan Tilt Pattern Byte 1 Pattern Zoom Speed Movements Pan/Tilt	Temperature Dimmer Shutter White Blue Green Red Color Wheel Tilt Key code xxxx Display Contrast PWM - Frequ. Adj. Pan Offset Tilt Offset LED adjust  White adjust blue White adjust green  Clear EEPROM Diagnose  Set image if DMX off Save image in memory  Pan Tilt Pattern Byte 1 Pattern Zoom Speed Movements Pan/Tilt





			Special		Instantaneous value for Special
			White Temperature		Adjustment of the color temperate
			Dimmer		Instantaneous value for Dimmer
			Shutter		Instantaneous value for Shutter
•			White		Instantaneous value for White
<u>₽</u>			Blue		Instantaneous value for Blue
·			Green		Instantaneous value for Green
DOWN			Red		Instantaneous value for Red
			Color Wheel		Instantaneous value for Color Mix
$\downarrow$	Set DMX Mode			•	Select the desired DMX Mode
	1	Compressed Mode			Fixture works in "Compressed" m section 4 below
		Normal Mode			Fixture works in "Normal" mode - section 4 below
		High-Res. Mode			Fixture works in "High Resolution also section 4 below
	Position feedback				Switch automatic position feedba
	Reverse Pan				Invert Pan movements: ON/OFF
	Reverse Tilt				Invert Tilt movements: ON/OFF
	Reset				RESET and new calibration for a
		•			

Adjustment of the color temperature for WHITE
Instantaneous value for Dimmer
Instantaneous value for Shutter
Instantaneous value for White
Instantaneous value for Blue
Instantaneous value for Green
Instantaneous value for Red
Instantaneous value for Color Mixing unit
Select the desired DMX Mode
Fixture works in "Compressed" mode → see also section 4 below
Fixture works in "Normal" mode → see also section 4 below
Fixture works in "High Resolution" mode → see also section 4 below
Switch automatic position feedback ON/OFF
Invert Pan movements: ON/OFF
Invert Tilt movements: ON/OFF
RESET and new calibration for all functions

(Instruction version: 1.0) / from software version: 1.0





# 4 DMX Channel Selection (DMX Protocol)

# Normal-Mode 18 DMX channels

Channel	Function			Time and Value	DMX	HEX	%
1) PAN-					0255	00FF	0100
coarse					0200	001	0100
2) PAN-fine					0255	00FF	0100
3) Tilt-					0255	00FF	0100
coarse					0200	00	0100
4) Tilt-fine					0255	00FF	0100
5) Color	Colors adjust	table via R	ЗB		07	0007	025
(fixed)	Color 01 - Re	ed 1)			815	080F	35.5
(**************************************	Color 02 - Ar				1623	1017	68.5
	Color 03 - W	arm Yellow	, 1)		2431	181F	912.5
	Color 04 - Ye				3239	2027	1315.5
	Color 05 - Gr				4047	282F	1618.5
	Color 06 - Tu	irquoise 1)			4855	3037	1921.5
	Color 07 - Cy	/an <sup>1)</sup>			5663	383F	2224.5
	Color 08 - Bl	ue 1)			6471	4047	2527.5
	Color 09 - La	vender 1)			7279	484F	2830.5
	Color 10 - Ma				8087	5057	3134.5
	Color 11 - Ma	agenta 1)			8895	585F	3537.5
	Color 12 - Pi	nk <sup>1)</sup>			96103	6067	3840.5
	White - CTO			3200K	104111	686F	4143.5
	White			5600K	112119	7077	4446.5
	White - CTB			7200K	120127	787F	4749.5
	Rainbow Effe	ect Stop 2)			128	80	50
	Rainbow Effe			slow - fast	129223	81DF	5188
	Random colo			slow - fast	224255	E0FF	89100
6) Red	Color mixing	system - R	ed	0 - 100%	0255	00FF	0100
7) Green	Color mixing	system - G	ireen	0 - 100%	0255	00FF	0100
8) Blue	Color mixing	system - B	lue	0 - 100%	0255	00FF	0100
9) White	Color mixing	system - W	/hite	0 - 100%	0255	00FF	0100
10) Shutter	Shutter close	ed			015	000F	05.5
	Shutter pulse	random		slow - fast	1647	102F	618.5
	Up-dimming	then Shutte	er closing	alow fact	4879	20.45	1931
	(random patt			slow – fast	4079	304F	1931
	Shutter open		-dimming	slow - fast	80111	50 6F	3243
	(random patt			310W — 1831	00111	3001	3243
	Up-dimming		dimming	slow - fast	112143	708F	4456
	(random patt						
	Strobe effect			5s - 0.1s	160199	A0C7	6377
	Strobe effect			1 Hz - 10 Hz	200239	C8EF	7894
	Shutter open				240255	F0FF	95100
11) Dimmer	Dimmer			0 - 100%	0255	0FF	0100
12) CTO	No CTO				07	007	02.5
	Continuous o	color tempe	rature	Applicable for ALL	8255	08FF	3100
10) 0	correction			colors			
13) Special	Pattern Block				03	0003	01
	Change PWI	vi trequenc	У		100200	64C8	4078
<u></u>	RESET				250255	FAFF	98100
14) Move-	No macros				0	00	0
ment	Movement	Size	Phase	Use "Speed" to adjust		<b>.</b>	
macros	PAN	1	0°		0101	0101	0.5





Channel	Function		Time and Value	DMX	HEX	%	
		1	90°		0203	0203	1.0
		1	180°		0405	0405	1.7
		1	270°		0607	0607	2.5
	PAN	2	0°		0809	0809	3.3
		2	90°		1011	0A0B	4.1
		2	180°		1213	0C0D	4.9
		2	270°		1415	0E0F	5.7
	PAN	3	0°		1617	1111	6.5
		3	90°		1819	1213	7.3
		3	180°		2021	1415	8.0
		3	270°		2223	1617	8.8
	PAN	4	0°		2425	1819	9.6
		4	90°		2627	1A1B	10.4
		4	180°		2829	1C1D	11.2
		4	270°		3031	1E1F	12
	TILT		size / phase		3263	203F	1325
	PAN / TIL		size / phase		6495	405F	2637
		T (inverse)	size / phase		96127	607F	3850
	Circle		size / phase		128159	809F	5162
	Circle (inv		size / phase		160191	A0BF	6375
	Lying eigh		size / phase		192223	C0DF	7687
	·	novement	size / phase	see PAN	224255	E0FF	88100
15) Speed	controller	ovement speed	from		01	0001	005
Pan/Tilt	Pan/Tilt, s	low – fast					
	Use this c	hannel also for t	he speed of		02255	02FF	1100
	the mover	ments (channel 1	4).				
16) Zoom	Wide - na	rrow (spot)			0255	00FF	0100
17) Pattern	No pattern	<u> </u>			02	0002	01
	Pre-define	ed patterns			03253	03FD	299
	Activates direct access to LED Pattern				254255	FEFF	100
18) Pattern Byte 1	Direct acc	ess to Pattern of	FLED 17		0255	00FF	0100

# **Compress-Mode 14 DMX channels**

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-			0255	00FF	0100
coarse			0200	001	0100
2) PAN-fine			0255	00FF	0100
3) Tilt-			0255	00FF	0100
coarse					
4) Tilt-fine			0255	00FF	0100
5) Color	Colors adjustable via RGB		07	0007	02.5
(fixed)	Color 01 - Red 1)		815	080F	35.5
	Color 02 - Amber 1)		1623	1017	68.5
	Color 03 - Warm Yellow 1)		2431	181F	912.5
	Color 04 - Yellow 1)		3239	2027	1315.5
	Color 05 - Green 1)		4047	282F	1618.5
	Color 06 - Turquoise 1)		4855	3037	1921.5
	Color 07 - Cyan 1)		5663	383F	2224.5
	Color 08 - Blue 1)		6471	4047	2527.5





Channel	Function	Time and Value	DMX	HEX	%
	Color 09 - Lavender 1)		7279	484F	2830.5
	Color 10 - Mauve 1)		8087	5057	3134.5
	Color 11 - Magenta 1)		8895	585F	3537.5
	Color 12 - Pink 1)		96103	6067	3840.5
	White - CTO	Color temperature 3200K	104111	686F	4143.5
	White	Color temperature 5600K	112119	7077	4446.5
	White - CTB	Color temperature 7200K	120127	787F	4749.5
	Rainbow Effect Stop 2)		128	80	50
	Rainbow Effect 3)	slow - fast	129223	81DF	5188
	Rainbow Effect, random colors	slow - fast	224.255	E0FF	89100
6) Red	Color mixing system - Red	0 - 100%	0255	00FF	0100
7) Green	Color mixing system - Green	0 - 100%	0255	00FF	0100
8) Blue	Color mixing system - Blue	0 - 100%	0255	00FF	0100
9) White	Color mixing system - White	0 - 100%	0255	00FF	0100
10) Shutter	Shutter closed		015	000F	05.5
	Random Pulse effect	slow - fast	1647	102F	618.5
	Up-dimming then Shutter closing (random patterns)	slow - fast	4879	304F	1931.5
	Shutter open then down-dimming (random patterns)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns)	slow - fast	112143	708F	4456
	Strobe effect pause	5s 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200.239	C8EF	7894
	Shutter open		240249		9597.5
	Shutter open		251255	FBFF	99100
11) Dimmer	Dimmer	0 - 100%	0255	0FF	0100
12) Zoom	Wide - narrow (spot)		0255	00FF	0100
13) Special	Pattern Block 1 → channel 14		03	0003	01
	Change PWM frequency		100200	64C8	4078
	RESET		250255	FAFF	98100
14) Pattern	No pattern		02	0002	01
	Pre-defined patterns		03253	03FD	299

# High Resolution (Extended) - Mode 19 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-			0255	00FF	0100
coarse					
2) PAN-fine			0255	00FF	0100
3) Tilt-			0255	00FF	0100
coarse					
4) Tilt-fine			0255	00FF	0100
5) Red-	Color mixing system – Red	0 - 100%	0255	00FF	0100
coarse					
6) Red-	Color mixing system – Red-Low		0255	00FF	0100
fine					





Channel	Function	Time and Value	DMX	HEX	%
7) Green- coarse	Color mixing system – Green	0 - 100%	0255	00FF	0100
8) Green- fine	Color mixing system – Green-Low		0255	00FF	0100
9) Blue- coarse	Color mixing system – Blue	0 - 100%	0255	00FF	0100
10) Blue- fine	Color mixing system – Blue-Low		0255	00FF	0100
11) White- coarse	Color mixing system – White	0 - 100%	0255	00FF	0100
12) White- fine	Color mixing system – White-Low		0255	00FF	0100
13) Shutter	Shutter closed		015	000F	05.5
	Random Pulse effect	slow - fast	1647	102F	618.5
	Up-dimming then Shutter closing (random patterns)	slow - fast	4879	304F	1931.5
	Shutter open then down-dimming (random patterns)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns)	slow - fast	112143	708F	4456
	Strobe effect pause	5s - 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz - 10 Hz	200239	C8EF	7894
	Shutter open		240249	F0F9	9597.5
	Shutter open		251255	FBFF	99100
14) Dimmer- coarse	Dimmer	0 - 100%	0255	0FF	0100
15) Dimmer- fine	Dimmer - Low		0255	0FF	0100
16) Zoom	Spot - Flood		0255	00FF	0100
17) Special	Pattern Block 1 → channel 18		03	0003	01
	Change PWM frequency		100200	64C8	4078
	RESET		250255	FAFF	98100
18) Pattern	No pattern		02	0002	01
	Pre-defined patterns		03253	03FD	299
	Activates direct access to LED Pattern		254255	FEFF	100
19) Pattern Byte 1	Direct access to Pattern of LED 17		0255	00FF	0100

<sup>&</sup>lt;sup>1)</sup> The predefined colors can be used as start-colors for the Rainbow effect. Please select first a desired start-color before you activate the rainbow effect. All **IMPRESSION X4S** will then start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION X4S** can have different start-colors but will still execute the rainbow effect synchronously. If you choose a color different from the ones marked with <sup>1)</sup> in the tables above the rainbow start-color will be red.

<sup>&</sup>lt;sup>2)</sup> Rainbow-effect Stop will pause this function. After resuming the rainbow-effect will be continued from the current color.

<sup>&</sup>lt;sup>3)</sup> The Rainbow-effect will run synchronously only if started from one of the predefined colors (see also <sup>1)</sup> before).



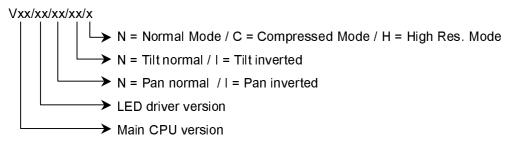


#### **Locking and unlocking the Control Panel**

Please lock and unlock the control panel by pressing the menu keys MODE & ENTER & UP at the same time.

#### **Additional Display Indications**

As a default you'll find the following additional information in the first row of the LCD display:



# 5 Maintaining and Cleaning the IMPRESSION X4S

The **IMPRESSION X4S** is a fixture of very low maintenance. It is only necessary to clean the air inlets and outlets as well as the optical LED lenses from time to time. For safe operation it is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on, or within the fixture. Otherwise the fixture's light-output will be significantly reduced or damages can occur. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to operate reliably throughout its life.

A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

# 5.1 Safety regulations

- Pull out the mains power plug!
- Wait min. 15 minutes after disconnecting power to allow the fixture to cool down.

#### 5.2 Maintenance and Interval (rule-of-thumb)

The contamination of the fixture depends on the environment details. Hence no general guidelines can be given. The intervals given below are only suggestions from our experience.

Position	Interval	In this way
LED reflector and optical system	weekly	soft brush /lint-free cloth
Fan and air channel	monthly	vacuum cleaner, airbrush, etc.





#### **Attention:**

- Never let optical parts come into contact with oil or fat.
- Before running the fixture wait until all parts are dry.
- · Never tough lenses with bare fingers.

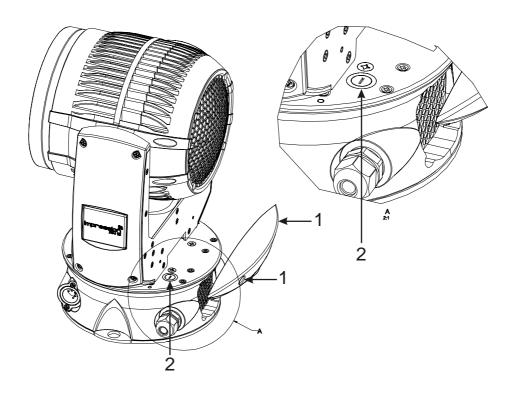
## 5.3 Changing the Fuse

## Follow the safety regulations as described above!

The micro-fuse holder (2) is located on the topside of the base. In order to attain access you first need to remove one of the two plastic side covers of the fixture arm. Open the two screws no. 1 shown in the picture below.

Replace the fuse with one with the exact rating as printed in this manual or the body of the fixture. Never use a different one!

Attach the side cover again before operating the fixture.



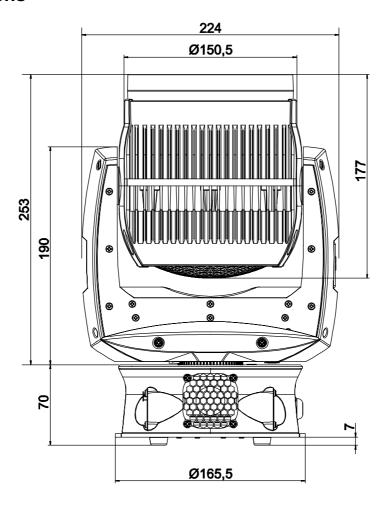




# 6 Technical Specifications

Power supply		
Power consumption	350 VA (Watt)	
Power Input	~100-240 V AC, 50-60 Hz (wide range input)	
Fuse protection	Micro-fuse 5x20 mm, T5A	
<b>Operational Parameters</b>		
Max. Ambient	5° - 45°C (integrated overheating switch)	
Temperature		
<b>Mounting Position</b>	Any (see relevant chapter)	
Lighting System - Additive Color mixing		
LED Type	7 x Osram Ostar RGBW multi-chip	
Lifetime	50,000 h	
Wavelength optimized for maximum presentable color space		
Optical System		
Full RGBW / High efficient Collimator cluster		
Shutter / Dimmer (8/16 B	lit)	
Strobe- Effect with variable speed between 1 - 10 flashes per second, Random-Strobe, Pulse-Effects		
Continuous Dimmer 0 - 10	00%	
Zoom		
7 to 50 degree continuous	zoom	
Optical Patterns		
Several hundred pre-defin	ed beam patterns with direct access and manipulation	
DMX Control		
Standard USITT DMX-512, 5-pin XLR; [+] = Pin 3 / [-] = Pin 2 / [Ground] = Pin 1 / Pin 4&5 N.C. Die DMX- Addressing starts at the DMX channel [001].		
Pan / Tilt (8/16 Bit)		
Pan- movement	660° in min. 3,2 seconds (Position Feedback)	
Tilt- movement	300° in min. 1,5 seconds (Position Feedback)	
Weights and Measures		
Base only	Ø165,5 mm	
Total width of fixture	•	
	224 mm	
Hight (head vertical) Weight (net)	224 mm 323mm (incl. base)	

# 7 Dimensions







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